

FILE ID**MTHDCONJG

二
六

MTH
1-0

MM MM TTTTTTTTTT HH HH DDDDDDDDD CCCCCCCCC 000000 NN NN JJ GGGGGGGGG
MM MM TTTTTTTTTT HH HH DDDDDDDDD CCCCCCCCC 000000 NN NN JJ GGGGGGGGG
MM MM TT HH HH DD DD CC 00 00 NN NN JJ GG
MM MM TT HH HH DD DD CC 00 00 NNNN NN JJ GG
MM MM TT HH HH DD DD CC 00 00 NNNN NN JJ GG
MM MM TT HH HH DD DD CC 00 00 NN NN JJ GG
MM MM TT HH HH DD DD CC 00 00 NN NN JJ GG
MM MM TT HH HH DD DD CC 00 00 NN NNNN JJ GG GGGGGG
MM MM TT HH HH DD DD CC 00 00 NN NNNN JJ GG GGGGGG
MM MM TT HH HH DD DD CC 00 00 NN JJ JJ GG GG
MM MM TT HH HH DD DD CC 00 00 NN JJ JJ GG GG
MM MM TT HH HH DDDDDDDDD CCCCCCCCC 000000 NN NN JJJJJJJJ GGGGGG
MM MM TT HH HH DDDDDDDDD CCCCCCCCC 000000 NN NN JJJJJJJJ GGGGGG

(2) 51 HISTORY ; Detailed Current Edit History
(3) 58 DECLARATIONS
(4) 89 MTH\$DCONJG - return D COMPLEX*16 conjugate

0000 1 .TITLE MTH\$DCONJG - D COMPLEX*16 Conjugate
0000 2 .IDENT /1-001/ ; File: MTHDCONJG.MAR
0000 3
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0000 5 :*****
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0000 27 :
0000 28 :
0000 29 :
0000 30 : FACILITY: MATH LIBRARY
0000 31 :++
0000 32 : ABSTRACT:
0000 33 : This module contains routine MTH\$DCONJG:
0000 34 : Return D COMPLEX*16 conjugate.
0000 35 :
0000 36 :
0000 37 :--
0000 38 :
0000 39 : VERSION: 1
0000 40 :
0000 41 : HISTORY:
0000 42 :
0000 43 : AUTHOR:
0000 44 : Steven B. Lionel, 20-July-1979
0000 45 :
0000 46 : MODIFIED BY:
0000 47 :
0000 48 :
0000 49 :
0000

MTH\$DCONJG
1-001

K 2
- D COMPLEX*16 Conjugate HISTORY ; Detailed Current Edit History 16-SEP-1984 01:15:33 VAX/VMS Macro V04-00
HISTORY ; Detailed Current Edit History 6-SEP-1984 11:21:55 [MTHRTL.SRC]MTHDCONJG.MAR;1 Page 2
0000 51 .SBTTL HISTORY ; Detailed Current Edit History
0000 52
0000 53
0000 54 : Edit History
0000 55 :
0000 56 : 1-001 - Adapted from MTH\$CONJG version 1-002. SBL 20-July-1979

MTH
Sym
DCO
DCO
D-1
D-1
D-2
D-L
D-L
ERR
GEQ
GEQ
GTR
LON
MTH
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VAC

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Pha

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1 p

0000 58 .SBTTL DECLARATIONS
0000 59
0000 60 :
0000 61 : INCLUDE FILES:
0000 62 :
0000 63 :
0000 64 :
0000 65 : EXTERNAL SYMBOLS:
0000 66 : NONE
0000 67 :
0000 68 :
0000 69 :
0000 70 :
0000 71 : MACROS:
0000 72 : NONE
0000 73 :
0000 74 :
0000 75 :
0000 76 : PSECT DECLARATIONS:
0000 77 : .PSECT _MTH\$CODE PIC, SHR, EXE, NOWRT, LONG
0000 78 :
0000 79 :
0000 80 : EQUATED SYMBOLS:
0000 81 : NONE
0000 82 :
0000 83 :
0000 84 :
0000 85 : OWN STORAGE:
0000 86 : NONE
0000 87 :
00000000

Mac

-\$2
0 G
The
MAC

0000 89 .SBTTL MTHSDCONJG - return D COMPLEX*16 conjugate
 0000 90
 0000 91 :++
 0000 92 : FUNCTIONAL DESCRIPTION:
 0000 93 : Returns the complex conjugate of COMPLEX*16 number (r,i).
 0000 94 : Result is (r,-i).
 0000 95
 0000 96
 0000 97 : CALLING SEQUENCE:
 0000 98 : CALL MTHSDCONJG (result.wdc.r, arg.rdc.r)
 0000 99
 0000 100
 0000 101
 0000 102 : INPUT PARAMETERS:
 0000 103 : arg = 8 : D COMPLEX*16 argument by reference.
 0000 104
 0000 105
 0000 106 : IMPLICIT INPUTS:
 0000 107 : NONE
 0000 108
 0000 109 : OUTPUT PARAMETERS:
 0000 110
 0000 111 : result = 4 : D COMPLEX*16 result by reference
 0000 112
 0000 113 : IMPLICIT OUTPUTS:
 0000 114 : NONE
 0000 115
 0000 116 : COMPLETION CODES:
 0000 117 : NONE
 0000 118
 0000 119 : SIDE EFFECTS:
 0000 120 : Reserved Operand exception can occur.
 0000 121
 0000 122
 0000 123 :--
 0000 124
 0000 125
 0000 126
 0000 127 .ENTRY MTHSDCONJG ^M<>
 50 08 AC 0000 0000 128 MOVL arg(AP), R0 : argument address
 51 04 AC 0000 0002 129 MOVL result(AP), R1 : result address
 81 80 70 000A 0006 130 MOVD (R0)+, (R1)+ : real part
 61 60 72 000D 000D 131 MNEG D (R0), (R1) : imaginary part
 04 0010 132 RET
 0011 133
 0011 134
 0011 135 .END

ARG = 00000008
 MTH\$DCONJG = 00000000 RG 01
 RESULT = 00000004

! Psect synopsis !

PSECT name

	Allocation	PSECT No.	Attributes																
ABS	00000000 (0.)	00 (0.)	NOPIC	USR	CON	ABS	LCL	NOSHR	NOEXE	NORD	NOWRT	NOVEC	BYTE						
MTHSCODE	00000011 (17.)	01 (1.)	PIC	USR	CON	REL	LCL	SHR	EXE	RD	NOWRT	NOVEC	LONG						

! Performance indicators !

Phase

	Page faults	CPU Time	Elapsed Time
Initialization	32	00:00:00.10	00:00:01.68
Command processing	116	00:00:00.53	00:00:02.60
Pass 1	65	00:00:00.39	00:00:01.68
Symbol table sort	0	00:00:00.00	00:00:00.03
Pass 2	37	00:00:00.31	00:00:01.05
Symbol table output	2	00:00:00.00	00:00:00.31
Psect synopsis output	2	00:00:00.02	00:00:00.12
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	256	00:00:01.35	00:00:07.48

The working set limit was 750 pages.

1355 bytes (3 pages) of virtual memory were used to buffer the intermediate code.

There were 10 pages of symbol table space allocated to hold 3 non-local and 0 local symbols.

135 source lines were read in Pass 1, producing 10 object records in Pass 2.

0 pages of virtual memory were used to define 0 macros.

! Macro library statistics !

Macro library name

\$255\$DUA28:[SYSLIB]STARLET.MLB;2

Macros defined

0

0 GETS were required to define 0 macros.

There were no errors, warnings or information messages.

MACRO/ENABLE=SUPPRESSION/DISABLE=(GLOBAL,TRACEBACK)/LIS=LIS\$:\$MTHDCONJG/OBJ=OBJ\$:\$MTHDCONJG MSRC\$:\$MTHDCONJG/UPDATE=(ENH\$:\$MTHDCONJG)

0259 AH-BT13A-SE
VAX/VMS V4.0

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MTHDCONG
LIS

MTHDINT
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MTHDMAX1
LIS

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